

## MainActivity.kt (1)

```
package com.example.stopwatch

import ...

class MainActivity : AppCompatActivity() {
    lateinit var timer: Chronometer
    var running: Boolean = false
    var offset: Long = 0

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            insets
        }
        timer = findViewById(R.id.textTime)
        val btnStart = findViewById<Button>(R.id.buttonStart)
        val btnPause = findViewById<Button>(R.id.buttonPause)
        val btnReset = findViewById<Button>(R.id.buttonReset)
        if (savedInstanceState != null){
            offset = savedInstanceState.getLong( key: "offset")
            running = savedInstanceState.getBoolean( key: "running")
            if (running){
                timer.base = savedInstanceState.getLong( key: "base_key")
                timer.start()
            }
        }
        btnStart.setOnClickListener {
            if(!running){
                setBaseTime()
                timer.start()
                running = true
            }
        }
    }
}
```

## MainActivity.kt (2)

```
btnPause.setOnClickListener {
    if(running){
        saveOffset()
        timer.stop()
        running = false
    }
}

btnReset.setOnClickListener {
    offset = 0
    setBaseTime()
    running = false
}

private fun saveOffset(){
    offset = SystemClock.elapsedRealtime() - timer.base
}

private fun setBaseTime(){
    timer.base = SystemClock.elapsedRealtime() - offset
}

override fun onSaveInstanceState(savedInstanceState: Bundle) {
    savedInstanceState.putLong("offset", offset)
    savedInstanceState.putLong("base_key", timer.base)
    savedInstanceState.putBoolean("running", running)
    super.onSaveInstanceState(savedInstanceState)
}
}
```

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:background="#FCE4EC"
    tools:context=".MainActivity">
    <Chronometer
        android:id="@+id/textTime"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="80sp" />
    <Button
        android:id="@+id/buttonStart"
        android:layout_width="160dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:text="@string/buttonStart" />
    <Button
        android:id="@+id/buttonPause"
        android:layout_width="160dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="@string/buttonPause" />
    <Button
        android:id="@+id/buttonReset"
        android:layout_width="160dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="@string/buttonReset" />
</LinearLayout>
```

Результат:



